AMENDMENTS

Please incorporate the following amendments to the subject application.

In the Specification:

Please replace paragraph [0049] of the subject application with the following:

Databases 22a-22n may additionally comprise databases of genomic information that are accessible to the general public via the Internet. Such databases may include molecular, genetic, organism-based, gene expression, bibliographic, or other type of genomic information usable for selection of array design parameters. Public, Internet-accessible data bases that provide information usable in selection of array design parameters include the following, each of which can be accessed by entering "http:" plus "//www." (or ** "//gdbwww." or *** "//www3." or **** "//") and the URL address listed after each example in the "address" window of an internet browser application (e.g., Netscape): by way of example, European Molecular Biology Laboratory Nucleotide Sequence Data Library (EMBL), http://www. "embl-heidelberg" followed by ".de /", DNA Database of Japan (DDBJ), http://www. "ddbj.nig" followed by ".ac.jp/", Genbank, http://www. "ncbi." followed by "nlm.nih.gov/Genbank/GenbankSearch.html", Swiss-Prot., http://www. "expasy." followed by "ch/sprot/sprot-top.html", Genome Database (GDB), http://gdbwww."gdb.org, Online Mendelian Inheritance In Man (OMIM), http://www3.***"ncbi." followed by "nlm.nih.gov/Omim/", Cellular Response Database, http://**** "LHI5.umbc." followed by "edu/crd", dbEST, http://www. "ncbi." followed by "nlm.nih.gov/dbEST/index.html", GeneCards, http://**** "bioinformatics." followed by "weizmann.ac.il/cards/", Globin Gene Server, http://**** "globin." followed by "cse.psu.edu", Human Developmental Anatomy, http://www. "ana.ed.ac." followed by "uk/anatomy/ database/humat/", Kidney Development Database, http://www. "ana.ed." followed by "ac.uk/anatomy/ database/kidbase/kidhome.html", Merck Gene Index, http://www. "merck." followed by "com/mrl/ merck_gene_index.2.html", and Tooth Gene Expression Database, http://**** "bite-it." followed by "helsinki.fi/". Proprietary databases are also accessible via the Internet for a fee or on a subscription basis, such as Incyte's

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LIFESEQ®, http//.www. "incyte." followed by "com/ sequence/index.shtml"
(preceded by "http:" plus "//www."), and DOUBLETWIST™, https://
"genomezone." followed by "doubletwist.com/" (preceded by "https:" plus "//").
Various other public-accessible databases are known to those skilled in the art and
may be used for databases 22a, 22b, 22n as well.

Please replace paragraph [0070] of the subject application with the following:

At event 140, the array vendor completes the array design process by
providing any additional design parameters needed for completion of the array
design that were not provided by the customer in events 110 and 120. Array design
parameters that are selected or provided by the vendor will typically be associated
with computationally complex aspects of array design, i.e., nucleic acid probe
sequencing parameters. Event 140 accordingly includes sub-event 150 wherein
sequence information for probe selection is obtained. Sequencing information may
involve database searching using accession numbers for specific sequences, or use
of database search algorithms such as FASTA or BLAST to obtain raw sequence
data for the customer-selected genes of interest from event 100. The FASTA and
BLAST algorithms, which are well known in the art, are approximate heuristic
algorithms used to compute suboptimal pairwise similarity comparisons. Dynamic
programming is used to compute a series of subsequence alignments that are
combined to approximate a larger sequence alignment and global similarity score.
(See. e.g., http://www. "nbrf.georgetown" followed by ".edu/
pirwww/search/fasta.html" and http://www. "ncbi." followed by
"nlm.nih.gov/BLAST/", both of which can be accessed by typing the listed URL
into the "address" window of an internet browser after "http:" plus "//www.").

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